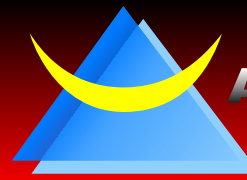


T4A SERIES

- Typical 5mm x 7mm Ceramic SMD (RoHS Compliant)
- Stratum 3 (Overall ± 4.6 ppm including 20 years aging)
- 5.0 and 3.3 Volt
- CMOS and Clipped Sine wave Output



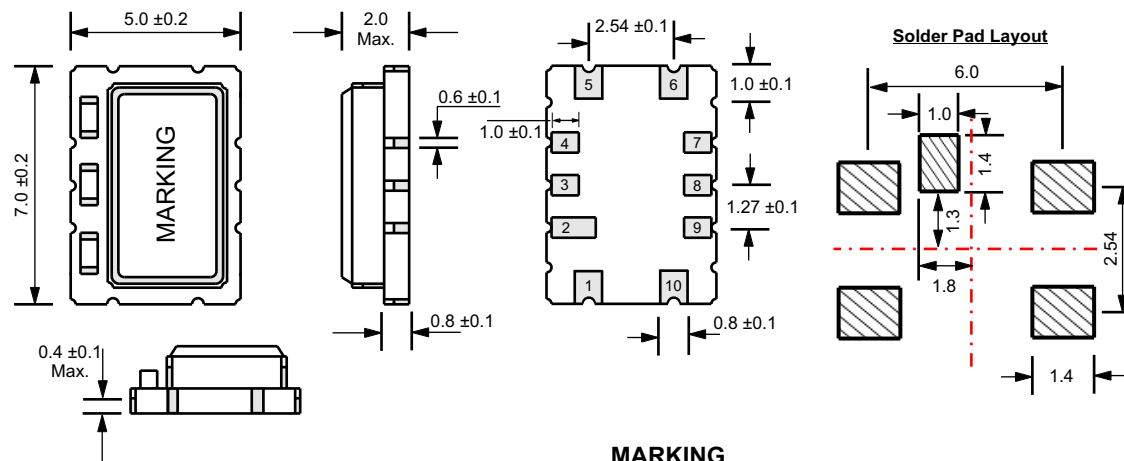
ASCEND

FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	Mhz	10.000 - 26.000 (CMOS: 12.800 Clipped sine: 10.000, 12.800, 19.200, 19.440, 25.600)
Frequency Stability:	Overall vs. Temp range (-20°C to +70°C) vs. Temp range (-40°C to +85°C)	± 4.6 ppm (Includes 20 years aging) ± 0.28 ppm Maximum ± 0.37 ppm Maximum Standard. ± 0.28 ppm optional (See options below)
Operating Temperature Range:	-	See options below
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	-	3.3Vdc $\pm 5\%$ or 5.0Vdc $\pm 5\%$
Supply Current:	CMOS output Clipped sine wave output	6mA Maximum 3.5mA Maximum
Output Level (CMOS):	Output High (Logic "1") Output Low (Logic "0") Duty	90% V _{DD} Minimum 10% V _{DD} Maximum 45/55%
Output Level (Clipped sine wave)	-	0.8Vp-p Minimum
Vc Input Impedance:	-	1.0M Ω Minimum
Phase Noise:	at 12.800MHz	-120dBc/Hz at 100Hz, -140dBc/Hz at 1KHz, -148dBc/Hz at 10KHz
Start-up Time:	-	2mSec Maximum
Tristate	-	(V _{DD}) 30% Max = Disable / (V _{DD}) 70% Min or no connect = Enable

Mechanical Dimensions



Pad	FUNCTION
1	Vcon: VC-TCXO; Ground: TCXO
2	N/C
3	N/C
4	N/C
5	GND
6	CMOS/Clipped Sine wave output
7	N/C
8	N/C
9	Tri-State Control
10	V _{DD}

MARKING

Line 1: XXX.XXX
Line 2: XXXXXX (Date Code)

ALL DIMENSIONS
IN MILLIMETERS

Part Numbering Guide

T4A 3 S 46 T A - 12.800M TR

Series

5 x 7 Ceramic SMD 10 Pads TCXO (RoHS Compliant)

Supply Voltage

5 = 5.0V
3 = 3.3V

Output Type

S = Clipped Sinewave
C = CMOS (15pf)

Frequency Stability

46 = ± 4.6 ppm (includes 20 years aging)

Tape and Reel

Frequency

Operating Temperature Range

A = -20°C to +70°C
B = -40°C to +85°C
C = ± 0.28 ppm over -40°C to +85°C

Pulling Range

R = ± 5 ppm
U = ± 8 ppm
T = TCXO